

What Is Claimed Is:

1. A process for producing a vinyl chloride-based polymer which comprises:  
polymerizing either a vinyl chloride monomer, or a mixture of a vinyl chloride  
5 monomer and another copolymerizable monomer therewith in an aqueous medium in a  
polymerization vessel equipped with a reflux condenser,  
removing heat generated in the polymerization, using said reflux condenser,  
and adding an aqueous solution of an ethylene oxide/propylene oxide copolymeric  
polyether with a weight average molecular weight of 1,500,000 to 2,000,000, and an  
10 ethylene oxide to propylene oxide molar ratio within a range from 78/22 to 82/18, as an  
antifoaming agent, in a quantity equivalent to 0.001 parts by weight to 0.008 parts by  
weight in terms of said copolymeric polyether per 100 parts by weight of said vinyl  
chloride monomer or the monomer mixture, to a polymerization mixture when a  
polymerization rate is within 30% to 50%.  
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2. The process according to claim 1, wherein from a point where said  
polymerization rate reaches 60%, a ratio of a quantity of heat removed by said reflux  
condenser relative to a total quantity of heat removed, per unit of time, is at least 30%.
- 20 3. The process according to claim 2, wherein said ratio of a quantity of heat  
removed by said reflux condenser is in a range of 30 to 60%.
4. The process according to claim 1, wherein said copolymeric polyether has  
a weight average molecular weight of 1,700,000 to 2,000,000.

5. The process according to claim 1, wherein said aqueous solution of said copolymeric polyether has a concentration within a range from 0.1 to 10% by weight.

5           6. The process according to claim 1, wherein said aqueous solution of said copolymeric polyether has a concentration within a range from 0.5 to 3% by weight.

7. The process according to claim 1, wherein said aqueous solution of said copolymeric polyether is added in a quantity equivalent to 0.003 parts by weight to  
10 0.008 parts by weight in terms of said copolymeric polyether per 100 parts by weight of said vinyl chloride monomer or said monomer mixture.